

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.3600003/RWE/BJDAPPLICATION NO.
09/558,421APPLICANT
Chatterjee, D.K.FILING DATE
April 26, 2000GROUP
1652

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mm2	AA1	4,962,020	10/09/1990	Tabor et al.	435	6	07/12/1988
	AB1	5,047,342	09/10/1991	Chatterjee, D.K.	435	194	08/10/1989
	AC1	5,079,352	01/07/1992	Gelfand et al.	536	27	05/15/1990
	AD1	5,173,411	12/22/1992	Tabor et al.	435	91	04/12/1991
	AE1	5,270,170	12/14/1993	Schatz et al.	435	7.37	10/16/1991
	AF1	5,270,179	12/14/1993	Chatterjee, D.K.	435	69.1	01/28/1992
	AG1	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
	AH1	5,614,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AI1	6,001,645	12/14/1999	Slater et al.	435	320.1	06/07/1995
mm2	AJ1	6,306,588 B1	10/23/2001	Solus et al.	435	6	02/06/1998
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mm2	AL1	EP 0 258 017 A2	03/02/1988	Europe	—	—	Yes No
	AM1	EP 0 351 138 A2	01/17/1990	Europe	—	—	Yes No
	AN1	WO 90/08839	08/09/1990	WIPO	—	—	Yes No
	AO1	EP 0 386 859 A2	09/12/1990	Europe	—	—	Yes No
mm2	AP1	WO 91/02090 A1	02/21/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	1	Astatke, M., et al., "Deoxynucleoside Triphosphate and Pyrophosphate Binding Sites in the Catalytically Competent Ternary Complex for the Polymerase Reaction Catalyzed by DNA Polymerase I (Klenow Fragment)," <i>J. Biol. Chem</i> 270:1945-1954, American Society for Biochemistry and Molecular Biology, Inc. (January 1995).
	AS	1	Basu, A., and M.J. Modak, "Identification and Amino Acid Sequence of the Deoxynucleoside Triphosphate Binding Site in <i>Escherichia coli</i> DNA Polymerase I," <i>Biochemistry</i> 26:1704-1709, American Chemical Society (1987).
mm2	AT	1	Beese, L.S., et al., "Crystal Structures of the Klenow Fragment of DNA Polymerase I Complexed with Deoxynucleoside Triphosphate and Pyrophosphate," <i>Biochemistry</i> 32:14095-14101, American Chemical Society (1993).

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mm2	AL2	WO 91/16446 A1	10/31/1991	WIPO	—	—	Yes No
	AM2	EP 0 516 245 A1	12/02/1992	Europe	—	—	Yes No
	AN2	WO 93/02212 A1	02/04/1993	WIPO	—	—	Yes No
	AO2	EP 0 655 506 A1	05/31/1995	Europe	—	—	Yes No
mm2	AP2	WO 96/41014 A1	12/19/96	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	2	Bernad, A., et al., "A Conserved 3'-5' Exonuclease Active Site in Prokaryotic and Eukaryotic DNA Polymerases," Cell 59:219-228, Cell Press (1989).
	AS	2	Blanco, L., et al., "Evidence favouring the hypothesis of a conserved 3'-5' exonuclease active site in DNA-dependent DNA polymerases," Gene 112:139-144, Elsevier Science Publishers B.V. (1992).
mm2	AT	2	Braithwaite, D.K., et al., "Compilation, alignment, and phylogenetic relationships of DNA polymerases," Nucleic Acids Res. 21:787-802, Oxford University Press (1993).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Carroll, S.S., et al., "A Mutant of DNA Polymerase I (Klenow Fragment) with Reduced Fidelity," <i>Biochemistry</i> 30:804-813, American Chemical Society (1991).
	AS	3	Das, S.K., et al., "Mechanism of T5-induced DNA Polymerase. I. Replication of Short Primer Templates," <i>J. Biol. Chem.</i> 252:8700-8707, American Society of Biological Chemists, Inc. (1977).
	AT	3	Das, S.K., et al., "Processiveness of DNA Polymerases: A Comparative Study Using a Simple Procedure," <i>J. Biol. Chem.</i> 254:1227-1232, American Society of Biological Chemists, Inc. (1979).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mmr	AR	4	Delarue, M., et al., "An attempt to unify the structure of polymerases," <i>Prot. Engin.</i> 3:461-467, Oxford University Press (1990).
	AS	4	Donlin, M.J., et al., "Mutants Affecting Nucleotide Recognition by T7 DNA Polymerase," <i>Biochemistry</i> 33:14908-14917, American Chemical Society (December 1994).
mmr	AT	4	Dunn, J.J. and F.W. Studier, "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," <i>J. Mol. Biol.</i> 166:477-535, American Society for Biochemistry and Molecular Biology, Inc. (1983).


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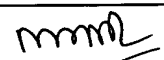
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	Freemont, P.S., et al., "A Domain of the Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I Has Polymerase but No Exonuclease Activity," <i>Proteins: Struct., Funct., Genet.</i> 1:66-73, Alan R. Liss, Inc. (1986).
	AS	<u>5</u>	Fujimura, R.K. and B.C Roop, "Characterization of DNA Polymerase Induced by Bacteriophage T5 with DNA Containing Single Strand Breaks," <i>J. Biol. Chem.</i> 251:2168-2175, American Society of Biological Chemists, Inc. (1976).
	AT	<u>5</u>	Fujimura, R.K., et al., "Physical Locus of the DNA Polymerase Gene and Genetic Maps of Bacteriophage T5 Mutants," <i>J. Virol.</i> 53:495-500, American Society for Microbiology (1985).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	Gutman, P.D. and K.W. Minton, "Conserved sites in the 5'-3' exonuclease domain of <i>Escherichia coli</i> DNA polymerase," <i>Nucl. Acids Res.</i> 21:4406-4407, Oxford University Press (1993).
	AS	<u>6</u>	Ito, J. and D.K. Braithwaite, "Compilation and alignment of DNA polymerase sequences," <i>Nucl. Acids Res.</i> 19:4045-4057, Oxford University Press (1991).
	AT	<u>6</u>	Joyce, C.M., et al., "Nucleotide Sequence of the <i>Escherichia coli</i> polA Gene and Primary Structure of DNA Polymerase I," <i>J. Biol. Chem.</i> 257:1958-1964, American Society of Biological Chemists, Inc. (1982).

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mm2	AR	1	Joyce, C.M., and T.A. Steitz, "Function And Structure Relationships In DNA Polymerases," <i>Annu. Rev. Biochem.</i> 63:777-822, Annual Reviews Inc. (July 1994).
	AS	1	Joyce, C.M., "Can DNA polymerase I (Klenow fragment) serve as a model for other polymerases?," <i>Curr. Opin. Struct. Biol.</i> 1:123-129, Current Biology Ltd. (1991).
mm2	AT	1	Lawyer, F.C., et al., "Isolation, Characterization, and Expression in <i>Escherichia coli</i> of the DNA Polymerase Gene from <i>Thermus aquaticus</i> ," <i>J. Biol. Chem.</i> 264:6427-6437, American Society of Biological Chemists, Inc. (1989).

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mm	AR	8	Leavitt, M.C. and J. Ito, "T5 DNA polymerase: Structural-functional relationships to other DNA polymerases," <i>Proc. Natl. Acad. Sci. USA</i> 86:4465-4469, The National Academy of Sciences (1989).
	AS	8	Ollis, D.L., et al., "Structure of large fragment of <i>Escherichia coli</i> DNA polymerase I complexed with dTMP," <i>Nature</i> 313:762-766, Nature Publishing Group (1985).
mm	AT	8	Pandey, V.N., et al., "Role of Lysine 758 of <i>Escherichia coli</i> DNA Polymerase I as Assessed by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 269:13259-13265, American Society for Biochemistry and Molecular Biology, Inc. (May 1994).

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mmmm	AR	9	Pelletier, H., et al., "Structures of Ternary Complexes of Rat DNA Polymerase β , a DNA Template-Primer, and ddCTP," <i>Science</i> 264:1891-1903, American Association for the Advancement of Science (June 1994).
	AS	9	Polesky, A.H., et al., "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, American Society for Biochemistry and Molecular Biology, Inc. (1990).
mmmm	AT	9	Prasad, V.R., et al., "Isolation and characterization of a dideoxyguanosine triphosphate-resistant mutant of human immunodeficiency virus reverse transcriptase," <i>Proc. Natl. Acad. Sci. USA</i> 88:11363-11367, The National Academy of Sciences (1991).

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mm	AR	10	Reha-Krantz, L.J., et al., "Bacteriophage T4 DNA Polymerase Mutations That Confer Sensitivity to the PP _i Analog Phosphonoacetic Acid," J. Virol. 67:60-66, American Society for Microbiology (1993).
	AS	10	Rhoades, M., "New Physical Map of Bacteriophage T5 DNA," J. Virol. 43:566-573, American Society for Microbiology (1982).
mm	AT	10	Sawaya, M.R., et al., "Crystal Structure of Rat DNA Polymerase β : Evidence for a Common Polymerase Mechanism," Science 264:1930-1935, American Association for the Advancement of Science (June 1994).

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mm2	AR	<u>11</u>	Slater, M.R. et al., "DNA Polymerase I of <i>Thermotoga neapolitana</i> (Tne) and Mutant Derivatives" (Abstract), Seventh International Genome Sequencing and Analysis Conference, p. P-47, Abstract No. A-33 (September 1995).
	AS	<u>11</u>	Song, Q., et al., "Mutagenesis of the Glu-89 Residue in Human Immunodeficiency Virus Type 1 (HIV-1) and HIV-2 Reverse Transcriptases: Effects on Nucleoside Analog Resistance," <i>J. Virol.</i> 66:7568-7571, American Society for Microbiology (1992).
mm2	AT	<u>11</u>	Sousa, R., et al., "Crystal structure of bacteriophage T7 RNA polymerase at 3.3 Å resolution," <i>Nature</i> 364:593-599, Nature Publishing Group (1993).

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mm2	AR	<u>12</u>	Stark, M.J.R., "Multicopy expression vectors carrying the <i>lac</i> repressor gene for regulated high-level expression of genes in <i>Escherichia coli</i> ," <i>Gene</i> 51:255-267, Elsevier (1987).
	AS	<u>12</u>	Tabor, S., et al., "Escherichia coli Thioredoxin Confers Processivity on the DNA Polymerase Activity of the Gene 5 Protein of Bacteriophage T7," <i>J. Biol. Chem.</i> 262:16212-16223, American Society for Biochemistry and Molecular Biology, Inc. (1987).
mm2	AT	<u>12</u>	Tabor, S. and C.C. Richardson, "Selective Inactivation of the Exonuclease Activity of Bacteriophage T7 DNA Polymerase by <i>in Vitro</i> Mutagenesis," <i>J. Biol. Chem.</i> 264:6447-6458, American Society for Biochemistry and Molecular Biology, Inc. (1989).

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mm	AR	13	Tabor, S. and C.C. Richardson, "A single residue in DNA polymerases of the <i>Escherichia coli</i> DNA polymerase I family is critical for distinguishing between deoxy- and dideoxyribonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 92:6339-6343, The National Academy of Sciences (July 1995).
	AS	13	Tabor, S., and C.C. Richardson, "Effect of manganese ions on the incorporation of dideoxynucleotides by bacteriophage T7 DNA polymerase and <i>Escherichia coli</i> DNA polymerase I," <i>Proc. Natl. Acad. Sci. USA</i> 86:4076-4080, The National Academy of Sciences (1989).
mm	AT	13	Windberger, E., et al., " <i>Thermotoga thermarum</i> sp. nov. and <i>Thermotoga neapolitana</i> occurring in African continental solfataric springs," <i>Arch. Microbiol.</i> 151:506-512, Springer-Verlag (1989).

EXAMINER mm	DATE CONSIDERED 5/21/02
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INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
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	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Copy of International Search Report from Application No. PCT/US96/14189.
	AS		
	AT		

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